

WHAT IS CLAIMED IS:

1. A liquid crystal display apparatus having a liquid crystal display plate, wherein a value of residual stress at a distance of 3 mm or less from edges of said liquid crystal display plate is approximately constant within a range of 0.1 to 5 kgf/cm².
2. A liquid crystal display apparatus having a liquid crystal display plate, wherein a value of residual stress at a distance of 3 mm or less from at least one edge of said liquid crystal display plate is approximately constant within a range of 0.1 to 5 kgf/cm².
3. A liquid crystal display apparatus having a liquid crystal display plate, wherein a value of residual stress at a distance of 3 mm or less from edges of said liquid crystal display plate is approximately constant within a range of 0.1 to 10 kgf/cm².
4. A liquid crystal display apparatus having a liquid crystal display plate, wherein a value of residual stress at a distance of 3 mm or less from at least one edge of said liquid crystal display plate is approximately constant within a range of 0.1 to 10 kgf/cm².
5. A liquid crystal display apparatus having a liquid crystal display plate, wherein a value of residual stress at a distance of 1 mm or less from

edges of said liquid crystal display plate is approximately constant within a range of 0.1 to 10 kgf/cm².

6. A liquid crystal display apparatus having a liquid crystal display plate, wherein a value of residual stress at a distance of 1 mm or less from at least one edge of said liquid crystal display plate is approximately constant within a range of 0.1 to 10 kgf/cm².

7. A method for producing a liquid crystal display apparatus having a liquid crystal display plate, comprising the steps of:

mechanically forming a scribe groove on a glass sheet having a plurality of liquid crystal display plates; and

cutting said glass sheet by applying an amount of heat which is predetermined in dependence of a thickness of said glass sheet to areas on both sides of the scribe groove.

8. A method for producing a liquid crystal display apparatus having a liquid crystal display plate, comprising the steps of:

mechanically forming a scribe groove on a glass sheet having a plurality of liquid crystal display plates;

placing a hot wire on an upper surface of said glass sheet on each side of the scribe groove; and

cutting said glass sheet by simultaneously

applying a predetermined voltage to said two hot wires.

9. A method for producing a liquid crystal display apparatus having a liquid crystal display plate, comprising the steps of:

mechanically forming a scribe groove on a glass sheet having a plurality of liquid crystal display plates; and

cutting said glass sheet by simultaneously heating an area of a predetermined length on each side of the scribe groove.

10. A method for producing a liquid crystal display apparatus which comprises a liquid crystal display plate having a first glass sheet with liquid crystal display circuit patterns formed thereon and a second glass sheet with liquid crystal display color filter patterns formed thereon, said method comprising:

step of mechanically forming a scribe groove on said first glass sheet;

first cutting step of cutting said first glass sheet by simultaneously heating an area of a predetermined length on each side of the scribe groove on said first glass sheet;

step of mechanically forming a scribe groove on said second glass sheet; and

second cutting step of cutting said second glass sheet by simultaneously heating an area of a predetermined length on each side of the scribe groove on said second glass sheet,

whereby said liquid crystal display plate is cut out.

11. A method for producing a glass sheet with a scribe groove formed thereon, wherein the scribe groove and its surroundings on the glass sheet are cooled, and the surrounding areas on both sides of the scribe groove are heated to extend the scribe groove to the backside of the glass sheet so that the glass sheet is eventually divided.

12. The method for producing a glass sheet according to claim 11, wherein said heating of the surrounding areas on both sides of the scribe groove is effected after said cooling of the scribe groove and its surroundings is effected, and wherein said heating is effected by heating elements previously buried or affixed in the surrounding areas on both sides of the scribe groove, said heating elements comprise a hot wire generating heat when energized by electricity or an element generating heat by chemical reaction.

13. A method for producing a glass sheet with a scribe groove formed thereon, wherein the scribe groove and its surroundings on the glass sheet are cooled, and at the same time, the surrounding areas on both sides of the scribe groove are heated to extend the scribe groove to the backside of the glass sheet so that the glass sheet is eventually divided.

14. A liquid crystal display apparatus having a liquid crystal display plate, wherein a hot wire of a

predetermined length is located at a distance of 3 mm or less from edges of said liquid crystal display plate.

15. A liquid crystal display apparatus having a liquid crystal display plate, wherein a hot wire of a predetermined length is buried at a distance of 3 mm or less from at least one edge of said liquid crystal display plate.